

Package ‘parltools’

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Type Package

Title Tools for Analysing UK Politics

Version 0.3.3

Maintainer Evan Odell <evanodell191@gmail.com>

Description Provides various tools for analysing UK political data, including election result datasets, hexagonal cartograms and functions to retrieve council member data.

URL <https://docs.evanodell.com/parltools>,
<https://github.com/EvanOdell/parltools/>

BugReports <https://github.com/EvanOdell/parltools/issues>

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LazyData TRUE

Depends R(>= 3.3.0)

Imports hansard, mnis, dplyr, stringi, sf, snakecase, readr

RoxygenNote 6.1.1

Encoding UTF-8

Suggests knitr, rmarkdown, testthat, covr, rgdal, devtools, leaflet,
htmltools, cartogram, htmlwidgets, ggplot2, tibble

VignetteBuilder knitr

NeedsCompilation no

Author Evan Odell [aut, cre] (<<https://orcid.org/0000-0003-1845-808X>>)

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R topics documented:

bes_2015	2
bes_2017	3
census_11	4

council_seats	4
current_mps	5
la_codes	6
leave_votes_west	6
mps_on_date	7
ni_ge_2017	8
parlitoools	9
party_colour	9
west_hex_map	10
Index	11

bes_2015	<i>2015 General Election Results</i>
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Description

A tibble with the British Election Study 2015 Constituency Results Version 2.21.

Usage

```
bes_2015
```

Format

A tibble, containing 650 rows and 92 columns. For full details on the included variables see the vignette: <http://docs.evanodell.com/parlitoools/articles/bes-2015.html>

Details

A tibble with constituencies results from the British Election Study 2015. Census data from the BES has been moved to the [census_11](#) dataset, and can be linked through the with the `pano`, `ons_const_id` and `constituency_name` variables. Only contains detailed results from Great Britain; the only data included on Northern Irish constituencies is the party that won the seat.

Variable names have been converted to snake_case and variables have been converted to appropriate R classes.

Source

<http://www.britishelectionstudy.com/data-object/2015-bes-constituency-results-with-census-and-cand>

References

Fieldhouse, Edward, Jane Green, Geoffrey Evans, Hermann Schmitt, Cees van der Eijk, Jonathan Mellon, and Christopher Prosser. "British Election Study, 2015: General Election Results Dataset," 2015. doi:10.13140/RG.2.1.1162.1844.

See Also

bes_2017
census_2011

bes_2017	<i>2017 General Election Results</i>
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Description

A tibble with the British Election Study 2017 Constituency Results Version 1.0.

Usage

bes_2017

Format

A tibble, containing 650 rows and 123 columns. For full details on the included variables see the vignette: <http://docs.evanodell.com/parlitools/articles/bes-2017.html>

Details

A tibble with Great Britain constituencies results from the 2017 General Election. This data can be linked to 2011 census information in [census_11](#) with the `pano`, `ons_const_id` and `constituency_name` variables. There are

Variable names have been converted to snake_case and variables have been converted to appropriate R classes.

Source

<http://www.britishelectionstudy.com/data-object/2017-bes-constituency-results-with-census-and-cand>

References

Fieldhouse, E., J. Green., G. Evans., H. Schmitt, C. van der Eijk, J. Mellon & C. Prosser (2017)
British Election Study 2017 Constituency Results file, version 1.0.

See Also

bes_2015
census_2011

census_11	<i>Constituency demographic information</i>
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Description

A tibble with demographic information on each constituency, taken from the 2011 census data included in the British Election Study. Can be linked to the [bes_2017](#) and [bes_2015](#) datasets using the `pano`, `ons_const_id` and `constituency_name` variables.

Usage

```
census_11
```

Format

A tibble, containing 632 rows and 191 columns. For full details on the included variables see the vignette: <http://docs.evanodell.com/parlitoools/articles/census-11.html>

Source

<http://www.britishelectionstudy.com/data-object/2017-bes-constituency-results-with-census-and-cand>

References

Fieldhouse, Edward, Jane Green, Geoffrey Evans, Hermann Schmitt, Cees van der Eijk, Jonathan Mellon, and Christopher Prosser. "British Election Study, 2015: General Election Results Dataset," 2015. doi:10.13140/RG.2.1.1162.1844.

See Also

[bes_2015](#)

[bes_2017](#)

council_seats	<i>Council Seats</i>
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Description

Downloads data from opencouncildata.co.uk/, with the composition of each local council in Great Britain. If using this data, please cite the above site as the source.

Usage

```
council_seats(councillors = FALSE, tidy = TRUE,  
              tidy_style = "snake_case")
```

Arguments

councillors	If TRUE, downloads details on each individual councillor for each local council. If FALSE, downloads summary data for each council. Defaults to FALSE.
tidy	If TRUE, fixes the variable names in the tibble to remove special characters and superfluous text, and converts the variable names to a consistent style. Defaults to TRUE.
tidy_style	The style to convert variable names to, if tidy=TRUE. Accepts one of 'snake_case', 'camelCase' and 'period.case'. Defaults to 'snake_case'.

Value

A tibble with the most recent available council seat distribution or councillor affiliations.

Examples

```
## Not run:
a <- council_seats(councillors = FALSE)

b <- council_seats(councillors = TRUE)

## End(Not run)
```

current_mps	<i>All current MPs</i>
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Description

Request data on all MPs eligible currently (i.e. on the current system date) to sit in the House of Commons. Includes information on their constituency.

Usage

```
current_mps(tidy = TRUE, tidy_style = "snake_case")
```

Arguments

tidy	If TRUE, fixes the variable names in the tibble to remove special characters and superfluous text, and converts the variable names to a consistent style. Defaults to TRUE.
tidy_style	The style to convert variable names to, if tidy=TRUE. Accepts one of 'snake_case', 'camelCase' and 'period.case'. Defaults to 'snake_case'.

Value

A tibble of all MPs currently eligible to sit in the House of Commons.

Examples

```
## Not run:
x <- current_mps()

## End(Not run)
```

la_codes	<i>A tibble with the name, ONS code and local authority type for UK local authorities.</i>
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Description

A tibble with the name, ONS code and local authority type for UK local authorities.

Usage

```
la_codes
```

Format

A tibble, with 418 rows and 3 columns.

name Local Authority Name

la_code The Local Authority code from the Office for National Statistics

type The type of local authority

Source

http://opencouncildata.co.uk/councils.php?model=http://geoportal.statistics.gov.uk/datasets/464be6191a434a91a5fa2f52c7433333_0

leave_votes_west	<i>A tibble with leave votes from the Brexit referendum in each constituency.</i>
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Description

A tibble with details on percentage of votes cast for leave in the 2016 referendum on British membership of the European Union in each constituency. Numbers for Britain were compiled by the House of Commons using data from Chris Hanretty's estimates of leave vote, and supplemented with data from BBC Freedom of Information requests for more finely grained voting data. Numbers for Northern Ireland, which reported results by constituency, are taken from the BBC.

Usage

```
leave_votes_west
```

Format

A tibble, with 650 rows and 8 columns.

ons_const_id ONS code for constituency

constituency_name The name of the constituency.

party_2016 The party holding the constituency on 23 June 2016, the date of the referendum.

ch_leave_vote Estimates of the leave vote produced by Chris Hanretty.

known_leave_vote_perc The percentage of votes cast for leave, if known.

how_do_we_know A character vector indicating the source of known constituency level Brexit votes. "Rosenbaum / Greenwood" refers to **BBC reporting**.

figure_to_use Actual leave vote, where known, and ch_leave_vote otherwise. #'

known_leave_vote A dummy variable indicating 'Yes' if the actual leave vote percentage is known, and 'No' if only the estimate by Chris Hanretty is available.

Source

Hanretty, C. (2017). Areal interpolation and the UK's referendum on EU membership. *Journal of Elections, Public Opinion and Parties*, 27(4), 466–483. <https://doi.org/10.1080/17457289.2017.1287081>

https://docs.google.com/spreadsheets/d/1b71SDKPFbk-ktmUTXmDpUP5PT299qq24orEA0_T0pmw/edit#gid=579044181

<http://www.bbc.co.uk/news/uk-northern-ireland-36616830>

mps_on_date

MPs on or between two dates

Description

Retrieve information on all MPs who were members of the House of Commons on a date or between two dates.

Usage

```
mps_on_date(date1 = Sys.Date(), date2 = NULL, tidy = TRUE,
            tidy_style = "snake_case")
```

Arguments

date1	The date to return the list of MPs from. Accepts character values in 'YYYY-MM-DD' format, and objects of class Date, POSIXt, POSIXct, POSIXlt or anything else than can be coerced to a date with <code>as.Date()</code> . Defaults to current system date.
date2	An optional query parameter. Accepts character values in 'YYYY-MM-DD' format, and objects of class Date, POSIXt, POSIXct, POSIXlt or anything else than can be coerced to a date with <code>as.Date()</code> . If a proper date, the function returns a list of all MPs who were members between date2 and date1. Defaults to NULL.
tidy	If TRUE, fixes the variable names in the tibble to remove special characters and superfluous text, and converts the variable names to a consistent style. Defaults to TRUE.
tidy_style	The style to convert variable names to, if tidy = TRUE. Accepts one of 'snake_case', 'camelCase' and 'period.case'. Defaults to 'snake_case'.

Details

Returns information on all MPs who were members of the House of Commons on the date specified (if only one date is included as a parameter), or on or between the two dates if both are specified. Includes constituency and electoral information if the date is 2010-05-06 or later, or if the date range is entirely between 2010-05-06 and the present day. This function is identical to the `mnis_mps_on_date` function from the `[mnis]` (<https://cran.r-project.org/package=mnis>) package, except it includes constituency data from the 2010 General Election (on 2010-05-06) onwards.

Value

A tibble with information on all MPs who were members of the House of Commons on the date specified (if only date1 is included as a parameter), or on or between the two dates if both date1 and date2 are specified.

Examples

```
## Not run:
x <- mps_on_date(date1 = "2017-04-19", date2 = "2010-05-04")

## End(Not run)
```

ni_ge_2017

Northern Ireland GE Results

Description

A tibble with results from UK General Elections in Northern Ireland in 2015 and 2017.

Usage

```
ni_ge_2017
```

Format

A tibble, with 18 rows and 62 columns.

Details

Data is taken from the Electoral Commission results.

Source

<https://www.electoralcommission.org.uk/our-work/our-research/electoral-data/electoral-data-files-and>

parltools

parltools: Tools for Analysing UK Politics with R

Description

The parltools package provides various useful tools and functions for analysing UK politics, creating political maps and retrieving data.

party_colour

A tibble with the ID, name and hex code for the official colour of a variety of political parties.

Description

Includes all political parties with MPs and a number without MPs. It also contains a 'No Overall Control' party for local government. Hex codes are taken from Wikipedia.

Usage

```
party_colour
```

Format

A tibble, containing 47 rows and 3 columns.

party_id The party ID, as assigned by the Members Name Information Service

party_name The name of the political party

party_colour A hex code for the party colour, as used by Wikipedia

Source

https://en.wikipedia.org/wiki/Wikipedia:Index_of_United_Kingdom_political_parties_meta_attributes <http://data.parliament.uk/membersdataplatfrom/services/mnis/ReferenceData/Parties/>

west_hex_map	<i>A hexagonal cartogram of Westminster parliamentary constituencies, stored as a simple feature.</i>
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Description

Originally created by Ben Flanagan at ESRI, with coordinates in Easting and Northing. The coordinates in the original shapefile were converted into Latitude and Longitude in QGIS, and the hexagon representing Ynys Mon was moved to be closer to the mainland of Wales.

Originally created by Ben Flanagan at ESRI, with coordinates in Easting and Northing. Converted coordinates into Latitude and Longitude in QGIS.

Usage

west_hex_map

local_hex_map

Format

An sf and data.frame object, containing 650 elements and 8 variables.

object_id Row Name

constituency_name The name of the constituency

description Description of constituency type

gss_code The constituency GSS (Government Statistical Service) code

region_name Name of region within the UK

shape_length The lengths of the shape

shape_area The area of shape

geometry Shape geometry/projection

Source

<http://www.arcgis.com/home/item.html?id=15baaa6fec54aa4b7250780b6534682>

<http://www.arcgis.com/home/item.html?id=593037bc399e460bb7c6c631ceff67b4>

Index

*Topic **datasets**

- bes_2015, [2](#)
- bes_2017, [3](#)
- census_11, [4](#)
- la_codes, [6](#)
- leave_votes_west, [6](#)
- ni_ge_2017, [8](#)
- party_colour, [9](#)
- west_hex_map, [10](#)

- bes_2015, [2](#), [4](#)
- bes_2017, [3](#), [4](#)

- census_11, [2](#), [3](#), [4](#)
- council_seats, [4](#)
- current_mps, [5](#)

- la_codes, [6](#)
- leave_votes_west, [6](#)
- local_hex_map (west_hex_map), [10](#)

- mps_on_date, [7](#)

- ni_ge_2017, [8](#)

- parlitoools, [9](#)
- parlitoools-package (parlitoools), [9](#)
- party_colour, [9](#)

- west_hex_map, [10](#)